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特許協力条約

P C T

09/786877

国際調査報告

(法8条、法施行規則第40、41条)
[PCT18条、PCT規則43、44]

出願人又は代理人 の書類記号	H 7 8 2 - 0 2			今後の手続きについては、国際調査報告の送付通知様式(PCT/ISA/220)及び下記5を参照すること。	
国際出願番号	PCT/JP00/04713		国際出願日 (日.月.年)	13.07.00	優先日 (日.月.年)
出願人(氏名又は名称)		松下電器産業株式会社			

国際調査機関が作成したこの国際調査報告を法施行規則第41条(PCT18条)の規定に従い出願人に送付する。
この写しは国際事務局にも送付される。

この国際調査報告は、全部で 4 ページである。

この調査報告に引用された先行技術文献の写しも添付されている。

1. 国際調査報告の基礎
 - a. 言語は、下記に示す場合を除くほか、この国際出願がされたものに基づき国際調査を行った。
 - この国際調査機関に提出された国際出願の翻訳文に基づき国際調査を行った。
 - b. この国際出願は、ヌクレオチド又はアミノ酸配列を含んでおり、次の配列表に基づき国際調査を行った。
 - この国際出願に含まれる書面による配列表
 - この国際出願と共に提出されたフレキシブルディスクによる配列表
 - 出願後に、この国際調査機関に提出された書面による配列表
 - 出願後に、この国際調査機関に提出されたフレキシブルディスクによる配列表
 - 出願後に提出した書面による配列表が出願時における国際出願の開示の範囲を超える事項を含まない旨の陳述書の提出があった。
 - 書面による配列表に記載した配列とフレキシブルディスクによる配列表に記録した配列が同一である旨の陳述書の提出があった。
2. 請求の範囲の一部の調査ができない(第I欄参照)。
3. 発明の単一性が欠如している(第II欄参照)。
4. 発明の名称は
 - 出願人が提出したものを承認する。
 - 次に示すように国際調査機関が作成した。

5. 要約は
 - 出願人が提出したものを承認する。
 - 第III欄に示されているように、法施行規則第47条(PCT規則38.2(b))の規定により国際調査機関が作成した。出願人は、この国際調査報告の発送の日から1ヶ月以内にこの国際調査機関に意見を提出することができる。
6. 要約書とともに公表される図は、
第 3 図とする。 出願人が示したとおりである. なし
 - 出願人は図を示さなかった。
 - 本図は発明の特徴を一層よく表している。

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第I欄 請求の範囲の一部の調査ができないときの意見（第1ページの2の続き）

法第8条第3項（PCT17条(2)(a)）の規定により、この国際調査報告は次の理由により請求の範囲の一部について作成しなかった。

1. 請求の範囲 _____ は、この国際調査機関が調査をすることを要しない対象に係るものである。
つまり、
2. 請求の範囲 _____ は、有意義な国際調査をすることができる程度まで所定の要件を満たしていない国際出願の部分に係るものである。つまり、
3. 請求の範囲 _____ は、従属請求の範囲であってPCT規則6.4(a)の第2文及び第3文の規定に従って記載されていない。

第II欄 発明の単一性が欠如しているときの意見（第1ページの3の続き）

次に述べるようにこの国際出願に二以上の発明があるとこの国際調査機関は認めた。

請求の範囲1—9に記載された発明は、副情報領域の情報層に情報の形状を変化させること無く光学的に媒体識別情報を記録された記録媒体に関する。

請求の範囲10—18に記載された発明は、副情報領域における情報層に光学的相変化により媒体識別情報を記録し、主情報領域における情報信号と副情報領域における媒体識別情報をビーム変調方式を異ならせてそれぞれ記録する光記録媒体の記録方法に関する。

1. 出願人が必要な追加調査手数料をすべて期間内に納付したので、この国際調査報告は、すべての調査可能な請求の範囲について作成した。
2. 追加調査手数料を要求するまでもなく、すべての調査可能な請求の範囲について調査することができたので、追加調査手数料の納付を求めなかった。
3. 出願人が必要な追加調査手数料を一部のみしか期間内に納付しなかったので、この国際調査報告は、手数料の納付のあった次の請求の範囲のみについて作成した。
4. 出願人が必要な追加調査手数料を期間内に納付しなかったので、この国際調査報告は、請求の範囲の最初に記載されている発明に係る次の請求の範囲について作成した。

追加調査手数料の異議の申立てに関する注意

追加調査手数料の納付と共に出願人から異議申立てがあった。
 追加調査手数料の納付と共に出願人から異議申立てがなかった。

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A. 発明の属する分野の分類 (国際特許分類 (IPC))

Int. C1' G11B7/007, G11B7/0045, G11B7/24,
G11B7/26, G11B20/12

B. 調査を行った分野

調査を行った最小限資料 (国際特許分類 (IPC))

Int. C1' G11B7/00-7/013, G11B7/24,
G11B7/26, G11B20/12

最小限資料以外の資料で調査を行った分野に含まれるもの

日本国実用新案公報	1922-1996年
日本国公開実用新案公報	1971-2000年
日本国登録実用新案公報	1994-2000年
日本国実用新案登録公報	1996-2000年

国際調査で使用した電子データベース (データベースの名称、調査に使用した用語)

C. 関連すると認められる文献

引用文献の カテゴリー*	引用文献名 及び一部の箇所が関連するときは、その関連する箇所の表示	関連する 請求の範囲の番号
Y	電子情報通信学会技術研究報告、MR97-33、(10月、1997)、田中伸一、外1名「DVDのROMディスクへの追記情報記録技術—BCA (Burst Cutting Area)」、pp. 33-38	1-10, 12-18
Y	US, 5818812, A (FUJITSU LTD.) 6. 10月. 1998 (06. 10. 98) 全文 & JP, 9-91782, A	1-10, 12-18

C欄の続きにも文献が列挙されている。

パテントファミリーに関する別紙を参照。

* 引用文献のカテゴリー

「A」特に関連のある文献ではなく、一般的技術水準を示すもの
「E」国際出願日前の出願または特許であるが、国際出願日以後に公表されたもの
「L」優先権主張に疑義を提起する文献又は他の文献の発行日若しくは他の特別な理由を確立するために引用する文献(理由を付す)
「O」口頭による開示、使用、展示等に言及する文献
「P」国際出願日前で、かつ優先権の主張の基礎となる出願

の日の後に公表された文献

「T」国際出願日又は優先日後に公表された文献であって出願と矛盾するものではなく、発明の原理又は理論の理解のために引用するもの
「X」特に関連のある文献であって、当該文献のみで発明の新規性又は進歩性がないと考えられるもの
「Y」特に関連のある文献であって、当該文献と他の1以上の文献との、当業者にとって自明である組合せによって進歩性がないと考えられるもの
「&」同一パテントファミリー文献

国際調査を完了した日

05. 10. 00

国際調査報告の発送日

17.10.00

国際調査機関の名称及びあて先

日本国特許庁 (ISA/JP)

郵便番号100-8915

東京都千代田区霞が関三丁目4番3号

特許庁審査官(権限のある職員)

殿川 雅也



5D

9'646

電話番号 03-3581-1101 内線 3550

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C (続き) 関連すると認められる文献		関連する 請求の範囲の番号
引用文献の カテゴリー*	引用文献名 及び一部の箇所が関連するときは、その関連する箇所の表示	
Y	JP, 10-188280, A (松下電器産業株式会社) 21. 7月. 1998 (21. 07. 98) 全文 (ファミリーなし)	1-10, 12-18
Y	JP, 9-73666, A (東レ株式会社) 18. 3月. 1997 (18. 03. 97) 全文 (ファミリーなし)	1-10, 12-18

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PATENT COOPERATION TREATY 09 / 786877

PCT

NOTIFICATION OF RECEIPT OF
RECORD COPY

(PCT Rule 24.2(a))

From the INTERNATIONAL BUREAU

To:

IKEUCHI, Hiroyuki
 Umeda Plaza Building
 Suite 401
 3-25, Nishitenma 4-chome
 Kita-ku, Osaka-shi
 Osaka 530-0047
 JAPON

Date of mailing (day/month/year)
 12 September 2000 (12.09.00)

IMPORTANT NOTIFICATION

Applicant's or agent's file reference
 H782-02

International application No.
 PCT/JP00/04713

The applicant is hereby notified that the International Bureau has received the record copy of the international application as detailed below.

Name(s) of the applicant(s) and State(s) for which they are applicants:

MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. (for all designated States except US)
 IRIE, Hiroaki et al (for US)

International filing date : 13 July 2000 (13.07.00)
 Priority date(s) claimed : 15 July 1999 (15.07.99)
 Date of receipt of the record copy by the International Bureau : 28 July 2000 (28.07.00)
 List of designated Offices :

EP :AT,BE,CH,CY,DE,DK,ES,FI,FR,GB,GR,IE,IT,LU,MC,NL,PT,SE
 National :CN,JP,MX,SG,US

ATTENTION

The applicant should carefully check the data appearing in this Notification. In case of any discrepancy between these data and the indications in the international application, the applicant should immediately inform the International Bureau.

In addition, the applicant's attention is drawn to the information contained in the Annex, relating to:

- time limits for entry into the national phase
- confirmation of precautionary designations
- requirements regarding priority documents

A copy of this Notification is being sent to the receiving Office and to the International Searching Authority.

The International Bureau of WIPO
 34, chemin des Colombettes
 1211 Geneva 20, Switzerland

Facsimile No. (41-22) 740.14.35

Authorized officer:


 Shinji IGARASHI

Telephone No. (41-22) 338.83.38

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INFORMATION ON TIME LIMITS FOR ENTERING THE NATIONAL PHASE

The applicant is reminded that the "national phase" must be entered before each of the designated Offices indicated in the Notification of Receipt of Record Copy (Form PCT/IB/301) by paying national fees and furnishing translations, as prescribed by the applicable national laws.

The time limit for performing these procedural acts is 20 MONTHS from the priority date or, for those designated States which the applicant elects in a demand for international preliminary examination or in a later election, 30 MONTHS from the priority date, provided that the election is made before the expiration of 19 months from the priority date. Some designated (or elected) Offices have fixed time limits which expire even later than 20 or 30 months from the priority date. In other Offices an extension of time or grace period, in some cases upon payment of an additional fee, is available.

In addition to these procedural acts, the applicant may also have to comply with other special requirements applicable in certain Offices. It is the applicant's responsibility to ensure that the necessary steps to enter the national phase are taken in a timely fashion. Most designated Offices do not issue reminders to applicants in connection with the entry into the national phase.

For detailed information about the procedural acts to be performed to enter the national phase before each designated Office, the applicable time limits and possible extensions of time or grace periods, and any other requirements, see the relevant Chapters of Volume II of the PCT Applicant's Guide. Information about the requirements for filing a demand for international preliminary examination is set out in Chapter IX of Volume I of the PCT Applicant's Guide.

GR and ES became bound by PCT Chapter II on 7 September 1996 and 6 September 1997, respectively, and may, therefore, be elected in a demand or a later election filed on or after 7 September 1996 and 6 September 1997, respectively, regardless of the filing date of the international application. (See second paragraph above.)

Note that only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination.

CONFIRMATION OF PRECAUTIONARY DESIGNATIONS

This notification lists only specific designations made under Rule 4.9(a) in the request. It is important to check that these designations are correct. Errors in designations can be corrected where precautionary designations have been made under Rule 4.9(b). The applicant is hereby reminded that any precautionary designations may be confirmed according to Rule 4.9(c) before the expiration of 15 months from the priority date. If it is not confirmed, it will automatically be regarded as withdrawn by the applicant. There will be no reminder and no invitation. Confirmation of a designation consists of the filing of a notice specifying the designated State concerned (with an indication of the kind of protection or treatment desired) and the payment of the designation and confirmation fees. Confirmation must reach the receiving Office within the 15-month time limit.

REQUIREMENTS REGARDING PRIORITY DOCUMENTS

For applicants who have not yet complied with the requirements regarding priority documents, the following is recalled.

Where the priority of an earlier national, regional or international application is claimed, the applicant must submit a copy of the said earlier application, certified by the authority with which it was filed ("the priority document") to the receiving Office (which will transmit it to the International Bureau) or directly to the International Bureau, before the expiration of 16 months from the priority date, provided that any such priority document may still be submitted to the International Bureau before that date of international publication of the international application, in which case that document will be considered to have been received by the International Bureau on the last day of the 16-month time limit (Rule 17.1(a)).

Where the priority document is issued by the receiving Office, the applicant may, instead of submitting the priority document, request the receiving Office to prepare and transmit the priority document to the International Bureau. Such request must be made before the expiration of the 16-month time limit and may be subjected by the receiving Office to the payment of a fee (Rule 17.1(b)).

If the priority document concerned is not submitted to the International Bureau or if the request to the receiving Office to prepare and transmit the priority document has not been made (and the corresponding fee, if any, paid) within the applicable time limit indicated under the preceding paragraphs, any designated State may disregard the priority claim, provided that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity to furnish the priority document within a time limit which is reasonable under the circumstances.

Where several priorities are claimed, the priority date to be considered for the purposes of computing the 16-month time limit is the filing date of the earliest application whose priority is claimed.

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PATENT COOPERATION TREATY

09 / 786877

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION CONCERNING
SUBMISSION OR TRANSMITTAL
OF PRIORITY DOCUMENT

(PCT Administrative Instructions, Section 411)

Date of mailing (day/month/year)
30 October 2000 (30.10.00)

To:

IKEUCHI, Hiroyuki
Umeda Plaza Building
Suite 401
3-25, Nishitenma 4-chome
Kita-ku, Osaka-shi
Osaka 530-0047
JAPONApplicant's or agent's file reference
H782-02

IMPORTANT NOTIFICATION

International application No.
PCT/JP00/04713International filing date (day/month/year)
13 July 2000 (13.07.00)International publication date (day/month/year)
Not yet publishedPriority date (day/month/year)
15 July 1999 (15.07.99)

Applicant

MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. et al

1. The applicant is hereby notified of the date of receipt (except where the letters "NR" appear in the right-hand column) by the International Bureau of the priority document(s) relating to the earlier application(s) indicated below. Unless otherwise indicated by an asterisk appearing next to a date of receipt, or by the letters "NR", in the right-hand column, the priority document concerned was submitted or transmitted to the International Bureau in compliance with Rule 17.1(a) or (b).
2. This updates and replaces any previously issued notification concerning submission or transmittal of priority documents.
3. An asterisk(*) appearing next to a date of receipt, in the right-hand column, denotes a priority document submitted or transmitted to the International Bureau but not in compliance with Rule 17.1(a) or (b). In such a case, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.
4. The letters "NR" appearing in the right-hand column denote a priority document which was not received by the International Bureau or which the applicant did not request the receiving Office to prepare and transmit to the International Bureau, as provided by Rule 17.1(a) or (b), respectively. In such a case, the attention of the applicant is directed to Rule 17.1(c) which provides that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity, upon entry into the national phase, to furnish the priority document within a time limit which is reasonable under the circumstances.

<u>Priority date</u>	<u>Priority application No.</u>	<u>Country or regional Office or PCT receiving Office</u>	<u>Date of receipt of priority document</u>
15 July 1999 (15.07.99)	11/201212	JP	04 Sept 2000 (04.09.00)

The International Bureau of WIPO
34, chemin des Colombettes
1211 Geneva 20, Switzerland

Facsimile No. (41-22) 740.14.35

Authorized officer

Magda BOUACHA

Telephone No. (41-22) 338.83.38

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PATENT COOPERATION TREATY

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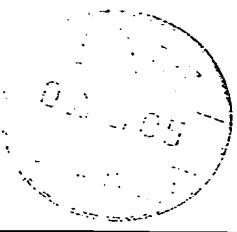
NOTICE INFORMING THE APPLICANT OF THE COMMUNICATION OF THE INTERNATIONAL APPLICATION TO THE DESIGNATED OFFICES

(PCT Rule 47.1(c), first sentence)

From the INTERNATIONAL BUREAU

To:

IKEUCHI, Hiroyuki
Umeda Plaza Building
Suite 401
3-25, Nishitenma 4-chome
Kita-ku, Osaka-shi
Osaka 530-0047
JAPON



Date of mailing (day/month/year) 25 January 2001 (25.01.01)		
Applicant's or agent's file reference H782-02		
International application No. PCT/JP00/04713	International filing date (day/month/year) 13 July 2000 (13.07.00)	Priority date (day/month/year) 15 July 1999 (15.07.99)
Applicant MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. et al		

IMPORTANT NOTICE

1. Notice is hereby given that the International Bureau has communicated, as provided in Article 20, the international application to the following designated Offices on the date indicated above as the date of mailing of this Notice:
US

In accordance with Rule 47.1(c), third sentence, those Offices will accept the present Notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

2. The following designated Offices have waived the requirement for such a communication at this time:

CN,EP,JP,MX,SG

The communication will be made to those Offices only upon their request. Furthermore, those Offices do not require the applicant to furnish a copy of the international application (Rule 49.1(a-bis)).

3. Enclosed with this Notice is a copy of the international application as published by the International Bureau on 25 January 2001 (25.01.01) under No. WO 01/06502

REMINDER REGARDING CHAPTER II (Article 31(2)(a) and Rule 54.2)

If the applicant wishes to postpone entry into the national phase until 30 months (or later in some Offices) from the priority date, a **demand for international preliminary examination** must be filed with the competent International Preliminary Examining Authority before the expiration of 19 months from the priority date.

It is the applicant's sole responsibility to monitor the 19-month time limit.

Note that only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination.

REMINDER REGARDING ENTRY INTO THE NATIONAL PHASE (Article 22 or 39(1))

If the applicant wishes to proceed with the international application in the **national phase**, he must, within 20 months or 30 months, or later in some Offices, perform the acts referred to therein before each designated or elected Office.

For further important information on the time limits and acts to be performed for entering the national phase, see the Annex to Form PCT/IB/301 (Notification of Receipt of Record Copy) and Volume II of the PCT Applicant's Guide.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. (41-22) 740.14.35	Authorized officer J. Zahra Telephone No. (41-22) 338.83.38
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PATENT COOPERATION TREATY

PCT

**NOTIFICATION CONCERNING
THE FILING OF AMENDMENTS OF THE CLAIMS**
(PCT Administrative Instructions, Section 417)

From the INTERNATIONAL BUREAU

To:

IKEUCHI, Hiroyuki
Umeda Plaza Building
Suite 401
3-25, Nishitenma 4-chome
Kita-ku, Osaka-shi
Osaka 530-0047
JAPON

Date of mailing (day/month/year)	15 December 2000 (15.12.00)
Applicant's or agent's file reference	IMPORTANT NOTIFICATION H782-02
International application No.	International filing date (day/month/year)
PCT/JP00/04713	13 July 2000 (13.07.00)
Applicant	MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. et al

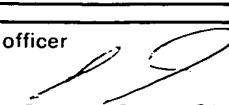
1. The applicant is hereby notified that amendments to the claims under Article 19 were received by the International Bureau on:

13 December 2000 (13.12.00)

2. This date is within the time limit under Rule 46.1.

Consequently, the international publication of the international application will contain the amended claims according to Rule 48.2(f), (h) and (i).

3. The applicant is reminded that the international application (description, claims and drawings) may be amended during the international preliminary examination under Chapter II, according to Article 34, and in any case, before each of the designated Offices, according to Article 28 and Rule 52, or before each of the elected Offices, according to Article 41 and Rule 78.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorised officer  Shinji IGARASHI
Facsimile No.: (41-22) 740.14.35	Telephone No.: (41-22) 338.83.38

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Statement based on PCT Article 19(1) (PCT rule 46.4)

1. Comparison between the present invention and the combination of cited references 1 to 4

(1) Claim 1 of the present invention

Even by combining all the cited references 1 to 4, the requirement included in claim 1 of the present invention, i.e. "medium identification information for distinguishing the medium optically is provided in a part of the information layer in the lead-in area . . ." is neither described nor suggested.

(2) Claim 10 of the present invention

Even by combining all the cited references 1 to 4, the requirement included in claim 10 of the present invention, i.e. "after recording by emitting a light beam to form a spot . . . of a circumferential direction of the spot" is neither described nor suggested.

Due to the difference in the requirements included in claim 1 and 10 described above, the present invention displays specific effects that "a pattern of medium identification information can be recorded in all the lead-in area where medium identification information is recorded without any break both in the radial direction and in the circumferential direction and also can be formed without causing any problems such as separation of the information layer in a recordable optical medium" (page 8, line 28 to page 9, line 14 and page 11, lines 5-8 of the specification) and also "the medium identification information recorded in the lead-in area without any break and the information signal recorded in the main information area can be distinguished easily, and the medium information (medium identification information) in the part of the medium information signal can be recognized precisely", as described in page 7, line 34 to page 8, line 2 of the specification. These effects cannot be anticipated from the cited reference 1 to 4 even by those skilled in the art.

(3) Claim 19 of the present invention

Even by combining all the cited references 1 to 4, the requirement included in claim 19 of the present invention, i.e. "the information layer for recording the information signal in the main information area is . . . medium identification information for distinguishing the medium optically, which includes an encryption key . . . , is provided" is neither described nor suggested.

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(4) Claim 22 of the present invention

Even by combining all the cited references 1 to 4, the requirement included in claim 22 of the present invention, i.e. "medium identification information is provided in the information layer of the lead-in area, which is formed by recording with a modulation method that is different from a light beam modulation method used for recording the information signal in the information layer of the main information area for distinguishing the medium optically with an optical head used for recording the information signal in the information layer of the main information area" is neither described nor suggested.

Due to the difference in the requirements included in claim 19 and 22 described above, the present invention displays a specific effect that "security such as prevention of illegal copying of digital information signals recorded in a main information area of a recording type optical recording medium can be guaranteed" (page 25, line 35 to page 26, line 1 of the specification, Embodiment 5), which cannot be anticipated from the cited reference 1 to 4 even by those skilled in the art.

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CLAIMS

1. An optical recording medium provided with a main information area capable of recording an information signal and a subsidiary information area for recording subsidiary information that is different from the information signal, which are divided in one principal plane direction of a substrate, wherein an information layer for recording the information signal in the main information area is provided also in the subsidiary information area, and medium identification information for distinguishing the medium optically is recorded in the information layer of the subsidiary information area without changing the shape of the information layer.
2. The optical recording medium according to claim 1, wherein the information layer includes a phase change type material that is changed to an optically detectable different phase by irradiation of a light beam.
3. The optical recording medium according to claim 1, wherein a constituent material of the information layer in the main information area and a constituent material of the information layer in the subsidiary information area are the same.
4. The optical recording medium according to claim 1, wherein the optical recording medium is a disc-shaped medium, and an amount of uneven distribution of the information layer in the subsidiary information area is larger in a vicinity of an end side of a back part in a rotation direction of the subsidiary information than in a vicinity of an end side of a front part of the subsidiary information in the rotation direction of the optical recording medium.
5. The optical recording medium according to claim 1, wherein the optical recording medium is a disc-shaped medium, and the subsidiary information area is located along an inner peripheral surface of a lead-in area of the disc-shaped medium.
6. The optical recording medium according to claim 5, wherein the subsidiary information area is present in the range between 22.3mm and 23.5mm from the center of the disc.

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7. The optical recording medium according to claim 5, wherein the subsidiary information is recorded with an additional area (Burst Cutting Area) overwritten in the subsidiary information area such that either an
5 amorphous state is to remain in a stripe form or a crystal state is to remain in a stripe form.

8. The optical recording medium according to claim 1 capable of recording medium identification information at the time when a phase change
10 type optical recording medium is initialized.

9. The optical recording medium according to claim 1, wherein a phase changes between an amorphous state and a crystal state, and reflectivity in a crystal state is at least 10% higher than reflectivity in an amorphous state.
15

10. A recording method for an optical recording medium using an optical recording medium provided with a main information area capable of recording an information signal and a subsidiary information area for recording subsidiary information that is different from the information signal, which are divided in one principal plane direction of a substrate, wherein an information layer for recording the information signal in the main information is provided also in the subsidiary information area, and medium identification information for distinguishing the medium by an optical phase change is recorded in the information layer of the subsidiary information area, the
20 method comprising, recording medium identification information optically in an information layer of the subsidiary information area, and recording an information signal optically in the main information area, wherein after the medium identification information is recorded, the information signal is recorded with a modulation method that is different from a light beam
25 modulation method used for recording the medium identification information.
30

11. The recording method of an optical recording medium according to claim 10, wherein the optical recording medium has a disc-shaped form, and when the medium identification information is recorded by emitting a light beam to the information layer, the light beam is scanned such that a part of a spot of the light beam is overlapped by another spot in a main scanning direction of a circumferential direction of the spot and in a subsidiary
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scanning direction of a radial direction of the spot.

12. The recording method of an optical recording medium according to claim 10, wherein, after medium identification information is recorded, a 5 phase of the main information area is changed continuously to a crystal state for initialization.

13. The recording method of an optical recording medium according to claim 10, wherein a power of a light beam with which the medium 10 identification information is emitted to the information layer is reduced to be lower than a power of a light beam to be emitted to the information layer other than the medium identification information.

14. The recording method of an optical recording medium according to claim 10, wherein a constituent material of the information layer in the main 15 information area and a constituent material of the information layer in the subsidiary information area are the same.

15. The recording method of an optical recording medium according to claim 10, wherein the optical recording medium is a disc-shaped medium, and 20 an amount of uneven distribution of the information layer in the subsidiary information area is larger in a vicinity of an end side of a back part in a rotation direction of the subsidiary information than in a vicinity of an end side of a front part of the subsidiary information in the rotation direction of 25 the optical recording medium.

16. The recording method of an optical recording medium according to claim 10, wherein the optical recording medium is a disc-shaped medium, and the subsidiary information area is located along an inner peripheral surface of 30 a lead-in area of the disc-shaped medium.

17. The recording method of an optical recording medium according to claim 16, wherein the subsidiary information area is present in the range between 22.3mm and 23.5mm from the center of the disc.

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18. The recording method of an optical recording medium according to claim 16, wherein the subsidiary information is recorded with an additional

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area (Burst Cutting Area) overwritten in the subsidiary information area such that either an amorphous state is to remain in a stripe form or a crystal state is to remain in a stripe form.

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TRANSLATION

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H782-02 E

PCT REQUEST

Draft (NOT for submission) - printed on 23.02.2001 07:01:37 PM

0	For receiving Office use only	
0-1	International Application No.	
0-2	International Filing Date	
0-3	Name of receiving Office and "PCT International Application"	
0-4	Form - PCT/RO/101 PCT Request	
0-4-1	Prepared using	PCT-EASY Version 2.91 (updated 01.01.2001)
0-5	Petition	
	The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty	
0-6	Receiving Office (specified by the applicant)	Japanese Patent Office (RO/JP)
0-7	Applicant's or agent's file reference	H782-02 E
I	Title of invention	OPTICAL RECORDING MEDIUM AND RECORDING METHOD FOR THE SAME
II	Applicant	
II-1	This person is:	applicant only
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III-2	Applicant and/or Inventor	
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IV-1	Agent or common representative; or address for correspondence The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as: Name (LAST, First) Address:	agent IKEUCHI, Hiroyuki Suite 401, UMEDA PLAZA Building, 3-25, Nishitenma 4-chome, Kita-ku Osaka-shi, Osaka 530-0047 Japan +81-6-6361-9334 +81-6-6361-9335
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IV-1-3	Telephone No.	
IV-1-4	Facsimile No.	
IV-2	Additional agent(s)	additional agent(s) with same address as first named agent
IV-2-1	Name(s)	SATO, Kimihiro
V	Designation of States	
V-1	Regional Patent (other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned)	EP: AT BE CH&LI CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE and any other State which is a Contracting State of the European Patent Convention and of the PCT (except TR)
V-2	National Patent (other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned)	CN JP MX SG US
V-5	Precautionary Designation Statement In addition to the designations made under items V-1, V-2 and V-3, the applicant also makes under Rule 4.9(b) all designations which would be permitted under the PCT except any designation(s) of the State(s) indicated under item V-6 below. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit.	
V-6	Exclusion(s) from precautionary designations	NONE
VI-1	Priority claim of earlier national application	
VI-1-1	Filing date	15 July 1999 (15.07.1999)
VI-1-2	Number	Patent Application 11-201212
VI-1-3	Country	JP
VI-2	Priority document request The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s):	VI-1

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VII-1	International Searching Authority Chosen	Japanese Patent Office (JPO) (ISA/JP)	
VIII	Check list	number of sheets	electronic file(s) attached
VIII-1	Request	5	-
VIII-2	Description	38	-
VIII-3	Claims	3	-
VIII-4	Abstract	1	h782-02abstract.txt
VIII-5	Drawings	24	-
VIII-7	TOTAL	71	
	Accompanying items	paper document(s) attached	electronic file(s) attached
VIII-8	Fee calculation sheet	✓	-
VIII-9	Separate signed power of attorney	✓	-
VIII-10	Copy of general power of attorney	✓	-
VIII-16	PCT-EASY diskette	-	diskette
VIII-18	Figure of the drawings which should accompany the abstract	3	
VIII-19	Language of filing of the International application	Japanese	
IX-1	Signature of applicant or agent		
IX-1-1	Name (LAST, First)	IKEUCHI, Hiroyuki	
IX-2	Signature of applicant or agent		
IX-2-1	Name (LAST, First)	SATO, Kimihiro	

FOR RECEIVING OFFICE USE ONLY

10-1	Date of actual receipt of the purported International application	
10-2	Drawings:	
10-2-1	Received	
10-2-2	Not received	
10-3	Corrected date of actual receipt due to later but timely received papers or drawings completing the purported International application	
10-4	Date of timely receipt of the required corrections under PCT Article 11(2)	
10-5	International Searching Authority	ISA/JP
10-6	Transmittal of search copy delayed until search fee is paid	

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特許協力条約に基づく国際出願願書

原本(出願用) - 印刷日時 2000年07月12日 (12.07.2000) 水曜日 11時26分34秒

H782-02

0	受理官庁記入欄	
0-1	国際出願番号	
0-2	国際出願日	
0-3	(受付印)	
0-4	様式-PCT/R0/101 この特許協力条約に基づく国際出願願書は、右記によって作成された。	PCT-EASY Version 2.90 (updated 10.05.2000)
0-5	申立て 出願人は、この国際出願が特許協力条約に従って処理されることを請求する。	
0-6	出願人によって指定された受理官庁	日本国特許庁 (R0/JP)
0-7	出願人又は代理人の書類記号	H782-02
I	発明の名称	光記録媒体および光記録媒体の記録方法
II	出願人 II-1 この欄に記載した者は II-2 右の指定国についての出願人である。 II-4ja II-4en II-5ja II-5en II-6 II-7 II-8 II-9	出願人である (applicant only) 米国を除くすべての指定国 (all designated States except US) 松下電器産業株式会社 MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. 571-8501 日本国 大阪府門真市 大字門真1006番地 1006-banchi, Oaza-Kadoma Kadoma-shi, Osaka 571-8501 Japan 日本国 JP 日本国 JP +81-6-6908-1473 +81-6-6906-1643
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H782-02

III-2	その他の出願人又は発明者	出願人及び発明者である (applicant and inventor)
III-2-1	この欄に記載した者は	米国のみ (US only)
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III-5 III-5-1	その他の出願人又は発明者 この欄に記載した者は	出願人及び発明者である (applicant and inventor) 米国のみ (US only)
III-5-2	右の指定国についての出願人である。 氏名(姓名)	大嶋 光昭 OSHIMA, Mitsuaki
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IV-1	代理人又は共通の代表者、通知のあて名 下記の者は国際機関において右記のごとく出願人のために行動する。 氏名(姓名) Name (LAST, First)	代理人 (agent) 池内 寛幸 IKEUCHI, Hiroyuki
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IV-1-3 IV-1-4	電話番号 ファクシミリ番号	
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IV-2-1ja IV-2-1en	氏名 Name(s)	佐藤 公博 SATO, Kimihiro
V V-1	国の指定 広域特許 (他の種類の保護又は取扱いを 求める場合には括弧内に記載す る。)	EP: AT BE CH&LI CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE 及びヨーロッパ特許条約と特許協力条約の締約国で ある他の国
V-2	国内特許 (他の種類の保護又は取扱いを 求める場合には括弧内に記載す る。)	CN JP MX SG US

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V-5	指定の確認の宣言 出願人は、上記の指定に加えて、規則4.9(b)の規定に基づき、特許協力条約のもとで認められる他の全ての国の指定を行う。ただし、V-6欄に示した国の指定を除く。出願人は、これらの追加される指定が確認を条件としていること、並びに優先日から15月が経過する前にその確認がなされない指定は、この期間の経過時に、出願人によって取り下げられたものとみなされることを宣言する。	
V-6	指定の確認から除かれる国	なし (NONE)
VI-1	先の国内出願に基づく優先権主張 VI-1-1 VI-1-2 VI-1-3 先の出願日 先の出願番号 国名	1999年07月15日 (15.07.1999) 特願平11-201212 日本国 JP
VI-2	優先権 証明書送付の請求 上記の先の出願のうち、右記の番号のものについては、出願書類の認証謄本を作成し国際事務局へ送付することを、受理官庁に対して請求している。	VI-1
VII-1	特定された国際調査機関 (ISA)	日本国特許庁 (ISA/JP)
VIII	照合欄	用紙の枚数
VIII-1	願書	5
VIII-2	明細書	38
VIII-3	請求の範囲	3
VIII-4	要約	1
VIII-5	図面	24
VIII-7	合計	71
VIII-8	添付書類	添付
VIII-9	手数料計算用紙	✓
VIII-10	別個の記名押印された委任状	✓
VIII-11	包括委任状の写し	✓
VIII-12	PCT-EASYディスク	-
VIII-13	その他	納付する手数料に相当する特許印紙を貼付した書面
VIII-14	その他	国際事務局の口座への振込みを証明する書面
VIII-15	要約書とともに提示する図の番号	3
VIII-16	国際出願の使用言語名:	日本語 (Japanese)
IX-1	提出者の記名押印	
IX-1-1	氏名(姓名)	池内 寛幸
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原本（出願用）- 印刷日時 2000年07月12日 (12.07.2000) 水曜日 11時26分34秒

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受理官庁記入欄

10-1	国際出願として提出された書類の実際の受理の日	
10-2	図面： 10-2-1 受理された 10-2-2 不足図面がある	
10-3	国際出願として提出された書類を補完する書類又は図面であってその後期間内に提出されたものの実際の受理の日（訂正日）	
10-4	特許協力条約第11条(2)に基づく必要な補完の期間内の受理の日	
10-5	出願人により特定された国際調査機関	ISA/JP
10-6	調査手数料未払いにつき、国際調査機関に調査用写しを送付していない	

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